

TSXv : LBNK

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FRA : HT9

LB Lithium Bank

Developing a Large Portfolio
of Deep Brine Lithium Projects
in North America

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🌐 www.LithiumBank.ca

September 2025



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Additionally, forward-looking statements involve a variety of known and unknown risks, uncertainties and other factors which may cause the actual plans, intentions, activities, results, performance or achievements of the Company to be materially different from any future plans, intentions, activities, results, performance or achievements expressed or implied by such forward-looking statements. Such risks include, without limitation: the Company's operations could be adversely affected by possible future government legislation, policies and controls or by changes in applicable laws and regulations; public health crises such as the COVID-19 pandemic may adversely impact the Company's business; the volatility of global capital markets; the failure of the Company to attract and retain skilled personnel; new environmental, health and safety regulations adversely affecting the mineral exploration industry; poor staffing of exploration activities and poor access to services and supplies at its properties; changes in labour costs and other costs and expenses or equipment or processes to operate as anticipated; unanticipated costs; risks of the earlier termination of the Company's material contracts or business arrangements; and the risk factors set out under the heading "Risk Factors" in the Company's final long form non-offering prospectus dated March 1, 2022, available for review on the Company's profile at www.sedarplus.ca, many of which are beyond the ability of the Company to control or predict.

Technical information in this report has been reviewed by Mr. Kevin Piepgrass (Chief Operations Officer, LithiumBank Resources Corp.), who is a Member of the Association of Professional Engineers and Geoscientists of Alberta (APEGA) and the Association of Professional Engineers and Association of Professional Engineers and Geoscientists of the province of BC (APEGBC) and is a Qualified Person (QP) for the purposes of NI 43-101. Mr. Piepgrass consents to the inclusion of the data in the form and context in which it appears.

Mineral resources that are not mineral reserves do not have demonstrated economic viability.

* The mineral resource NI 43-101 Technical Report for the Boardwalk Project, with effective date Dec. 20, 2022, identified 393,000 t LCE Indicated and 5.8 Mt LCE inferred and the NI 43-101 Preliminary Economic Assessment, Technical report, with effective date February 22, 2024, are available on LithiumBank's website (www.lithiumbank.ca/investors/documents) and SEDAR+ (sedarplus.ca)

INVESTOR HIGHLIGHTS

LB

Timing

Potential Cyclical Bottom of Lithium Commodity Cycle



Game Plan

- Compelling Value Creation Strategy – Acquire/Develop/Sell
- Clear Value Creation Objectives



Scale

- 2 District Scale Assets
- Globally Significant Resources



Results

- Compelling Preliminary Economic Assessment Results
- Proven Industry Leading Pilot Plant Recovery & Concentration



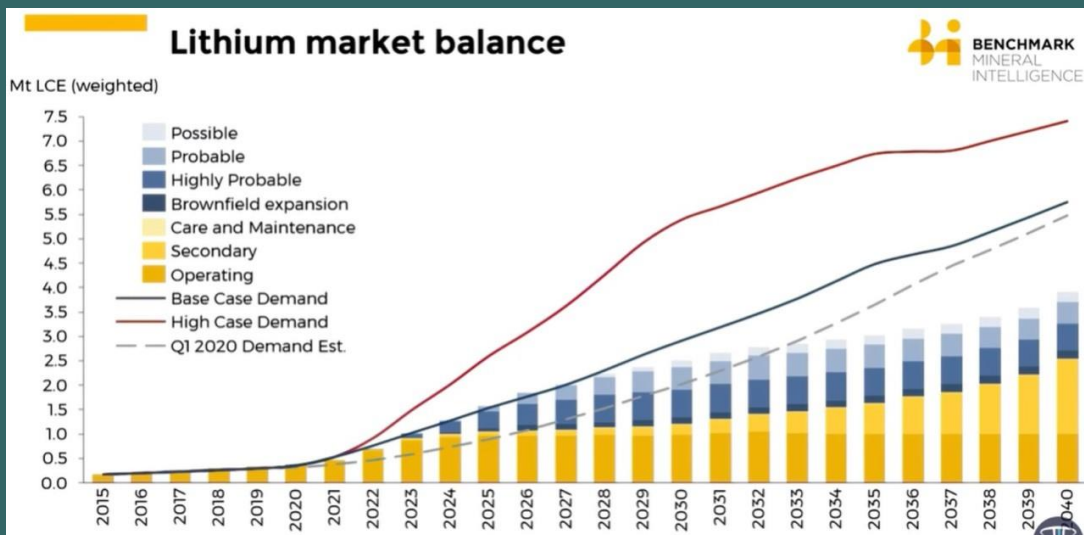
Track Record

- Industry Leading Partners and Engagements
- Proven Management Team with a Track Record for Monetizing Assets



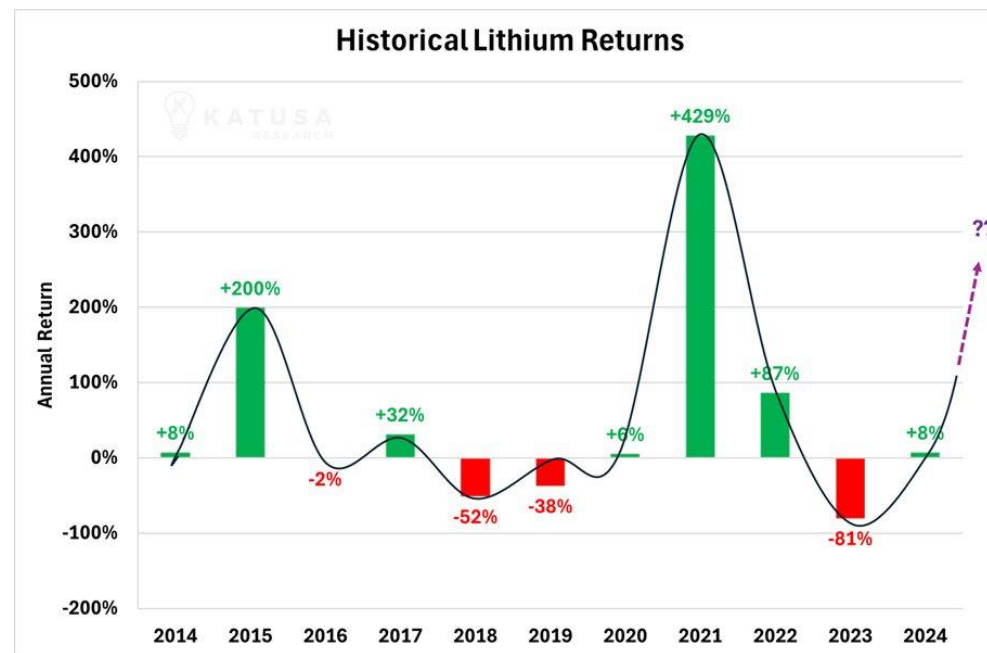
MACROECONOMIC LITHIUM OUTLOOK

The Bottom Could Already be In
Medium- and Long-Term Fundamentals Remain Strong for Lithium Demand



- Transportation, electrification and EV mandates will drive increasing demand for Lithium
- Continued global trade decoupling will increase the importance of domestic supply
- Demand is anticipated to outstrip supply from all sources by 2027

- Past lithium cycles have generated significant returns from trough to peak
- 40k TPA LCE at \$25k/tn long term avg pricing generates more cashflow than 40,000 barrels of Oil or 1000 oz of Gold per day



Katusa Research – Accessed September 2024

LITHIUMBANK MISSION

Large Scale Assets - Acquire, Develop & Sell

Recent Highlights:

- Sampled **82 mg/L Li over 167m** below hydrocarbon zone in the Leduc Fm and **newly discovered Swan Hills Fm** returned 78 mg/L lithium over 84m
- **Recovered 98% lithium from DLE pilot testing**
- Awarded **\$3.9M** in Non-Dilutive Funding from **Emissions Reduction Alberta** to Advance Boardwalk

Since Founding in 2019, LithiumBank:

- Holds over 1.8M acres of brine hosted mineral licenses
- Defined two National Instrument (NI) 43-101 Resource Estimates totaling over **23 Mt LCE**
 - **5.2 Mt LCE at 81.6 mg/L Li Measured and Indicated**, and 2.8 Mt LCE at 79.0 mg/L Li inferred at Boardwalk**
 - 15.2 Mt LCE inferred Resource at Park Place*
- Published a Preliminary Economic Assessment (PEA) at Boardwalk – February 2024***

Developing Feasibility-Ready Projects with:

- Detailed geological subsurface and reservoir modeling
- De-risked DLE Technology validated with pilot testing
- Mineral processing flowsheets to battery grade LCE
- Pathway to permitting



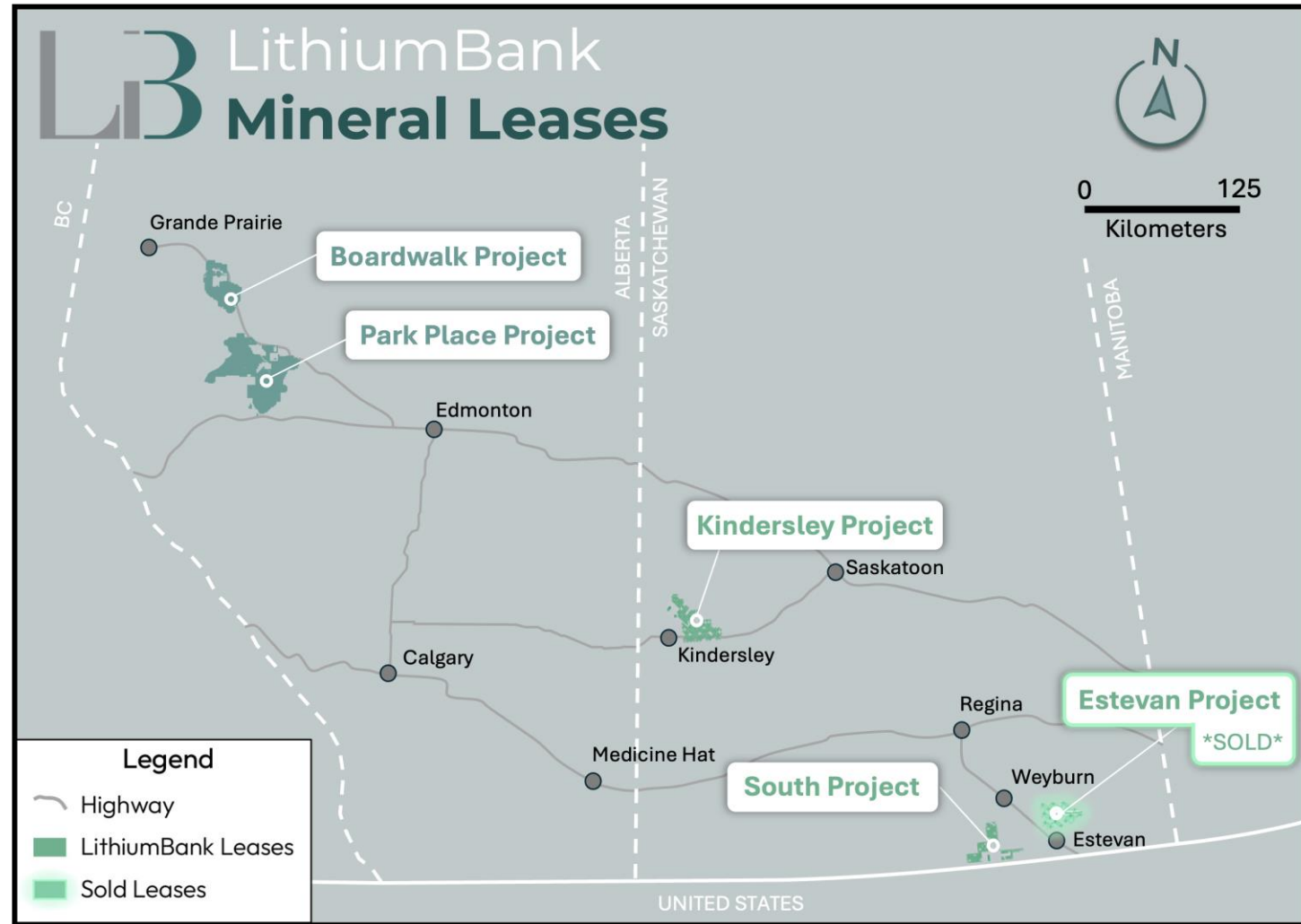
LITHIUMBANK VALUE CREATION - STRATEGY

Acquisition - \$1/acre

- Acquired via auction and staking 4 million acres of brine permits
- Retained ~1.1 million acres to move forward and develop

Development Assets

- **Boardwalk**
395,308 acres
- **Park Place**
538,359 acres
- **Kindersley**
113,641 acres
- **South**
134,229 acres
- **Estevan – SOLD (\$165/acre)**



LITHIUMBANK VALUE CREATION – STAGES

\$40M Raised to Date to Fulfill Development Objectives

LithiumBank Development Objectives

- Produce Lithium Hydroxide
- Construction
- Permitting
- Feasibility Study

- M&I Resource Upgrade**
- DLE Test Work**
- Preliminary Economic Assessment**
- Initial Resource Estimate**
- Hydrogeological Study**
- Sampling Program**
- Project Acquisition**
- Target Vectoring

South

Kindersley

Park Place

Boardwalk

DEVELOPING 2 DISTRICT-SCALE PROJECTS IN ALBERTA

Boardwalk

Park Place

- **933,667 acres of Brine Permits**

- **Asset Development**

Moved from staking to PEA in <3 years

- **Resource Friendly Jurisdiction**

Alberta is a resource driven economy with a legacy of large-scale resource development projects, low risk mineral tenure, **quick to permit**, safe and secure

- **Brownfield Development**

70 years of oil and gas development from other formations in permit area

- **Infrastructure**

Brownfield, 4 lane divided highway, rail, well pads, gas line network, power, water, local skilled labour force

ALBERTA, CANADA



BOARDWALK PROJECT

ONE OF THE LARGEST PROPOSED LCE BRINE OPERATIONS
IN NORTH AMERICA AT 34,005 TPA (LHM)

Highest Grade Measured & Indicated Lithium Resource* in Alberta with Encouraging Economics:

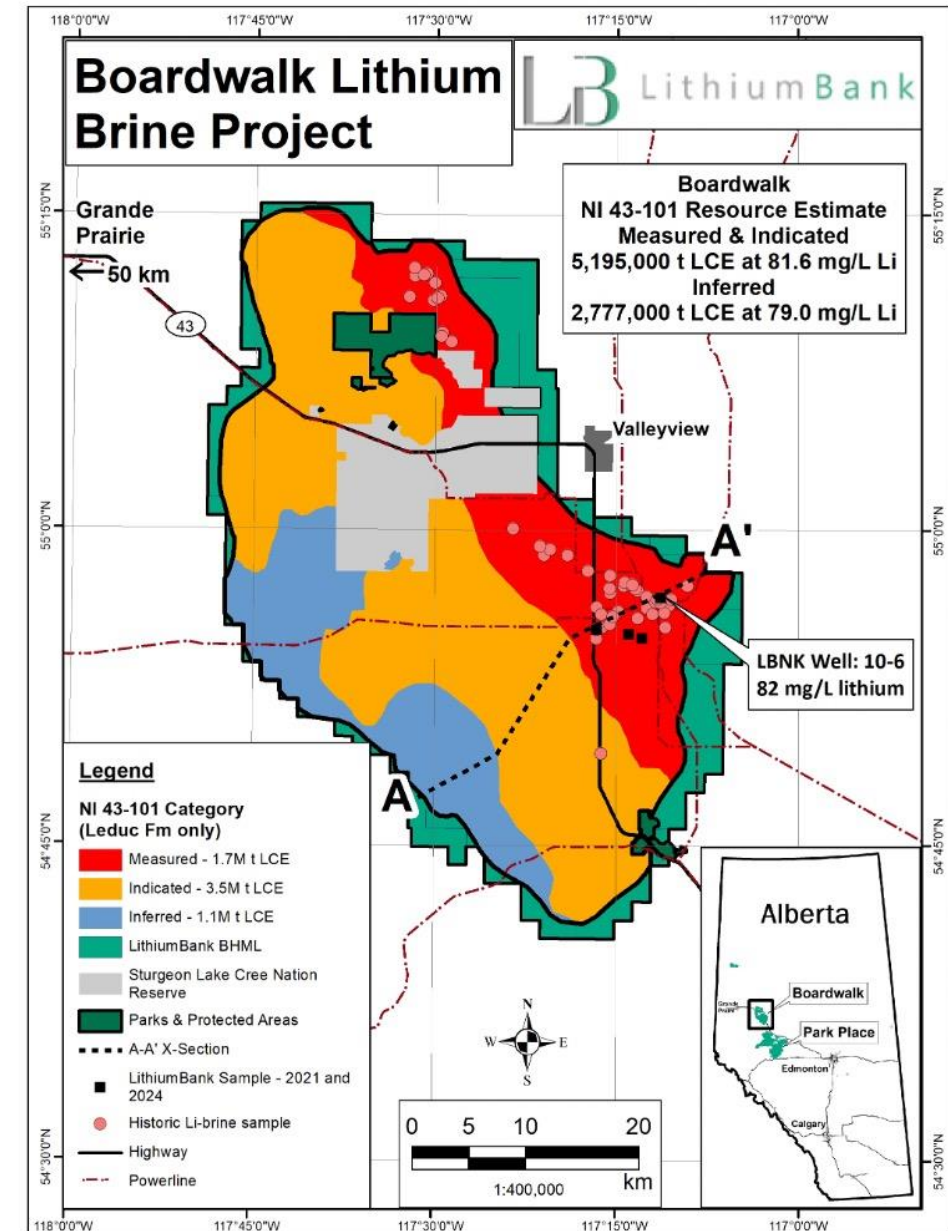
- 5.2 Mt LCE Measured & Indicated @ **81.6 mg/L** lithium and 2.8 Mt Inferred @ 79.0 mg/L lithium (completed by SLB Feb. 2025)
- Planned Production rate of 34,005 tpa over 20 yrs
- Pre-Tax NPV US\$3.7 Billion and EBITDA US\$715 Million
- Post-Tax NPV US\$2.3 Billion and 20.6% IRR

Recent Highlights:

- 98% lithium recovery from initial 40,000 L DLE pilot test in Calgary
- Well acquisition (well: 100/10-06-069-21W5/00) and completed drilling Leduc & Swan Hills Fm, August 2024
- **82 mg/L lithium over 167m** below hydrocarbon zone in Leduc
- 78 mg/L lithium in **first ever** Swan Hills Fm sampling
- Multiphysics well logs run for detailed geological modeling
 - new results yet to be included in PEA or resource estimate

Large Land Package and Simple Tenure:

- 395,308 contiguous acres of BHML's
- 100% crown/no freehold royalties
- No carbon sequestration (pore space) overlap



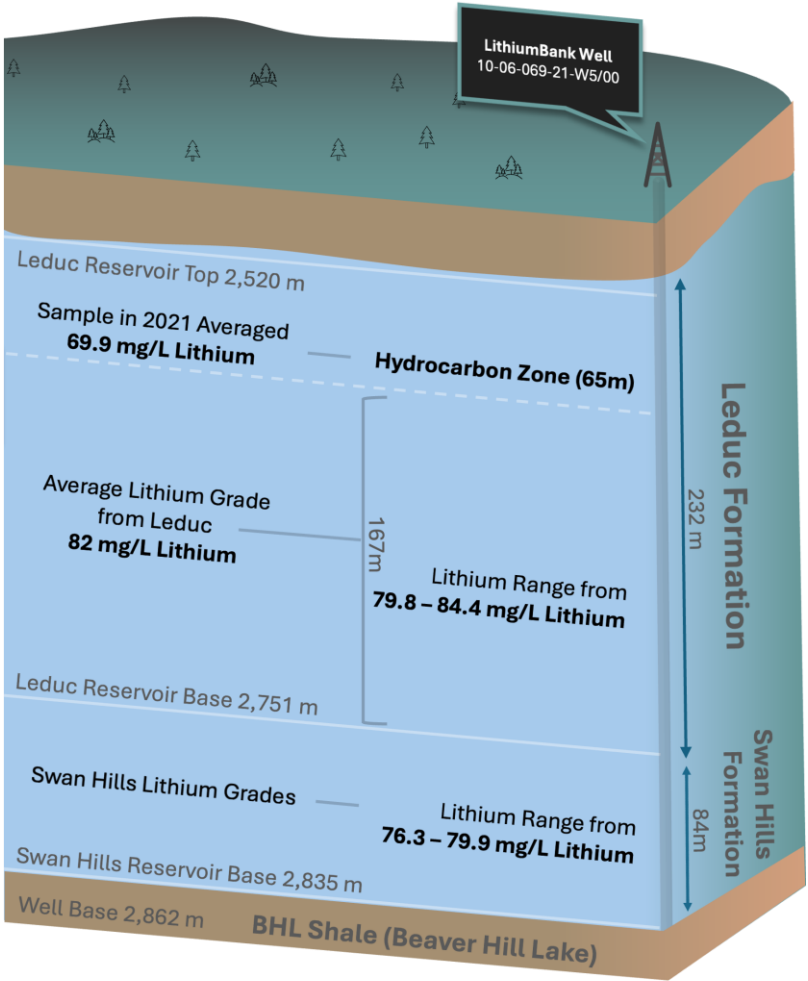
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BOARDWALK 2024 PEA

January 2024: CURRENT PRICING ENVIRONMENT FOR PEA IN NORTH AMERICA

Description	Unit	
LHM Sales	t/year	34,005
LHM Price	US\$/t	26,000
Site Operating Unit Cost	US\$/t sold	4,588
Site Operating Cost	US\$/year	154
Project Life	Years	>20
Initial Capital Cost	US\$M	2,160
Sustaining Capital Cost	US\$M	131
Pre-Tax NPV @ 8%	US\$M	3,679
Pre-Tax IRR	%	25.0
Pre-Tax Payback	operating years	3.5

**PEA has not been updated for recent material drilling results or expected Provincial and Federal rebates.*



Recent work not included in PEA

August 2024 drilling & brine sampling reported the Leduc Fm to be 232m thick (previously 206m) and 82 mg/L lithium over 167m below the hydrocarbon zone in Leduc Fm and newly discovered Swan Hills Fm returned 78 mg/L lithium over 68m

The PEA was prepared by the following Qualified Persons: Roy Eccles, P. Geol. of APEX Geoscience Ltd., Kim Mohler, P. Eng. of GLJ Ltd., Gordon MacMillan, P. Geol. of Fluid Domains, Jim Touw, P. Geol. of HCL Ltd., Frederick Scott, P. Eng. of Scott Energy, Egon Linton, P. Eng. of Hatch Ltd., Evan Jones, P. Eng. of Hatch Ltd., Stefan Hlouschko, P. Eng. of Hatch Ltd., and Lisa Park, AusIMM.

*A PEA is preliminary in nature as it includes a portion of inferred mineral resources that are considered too speculative geologically to have the economic considerations applied to them that would enable them to be categorized as mineral reserves, and there is no certainty that the preliminary economic assessment will be realized.

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PARK PLACE PROJECT

ONE OF THE LARGEST KNOWN REPORTED NI 43-101
INFERRED LITHIUM BRINE RESOURCE ESTIMATES IN
NORTH AMERICA AT 15.2 M TONNES LCE AT 80.0 MG/L LI

Project Highlights*:

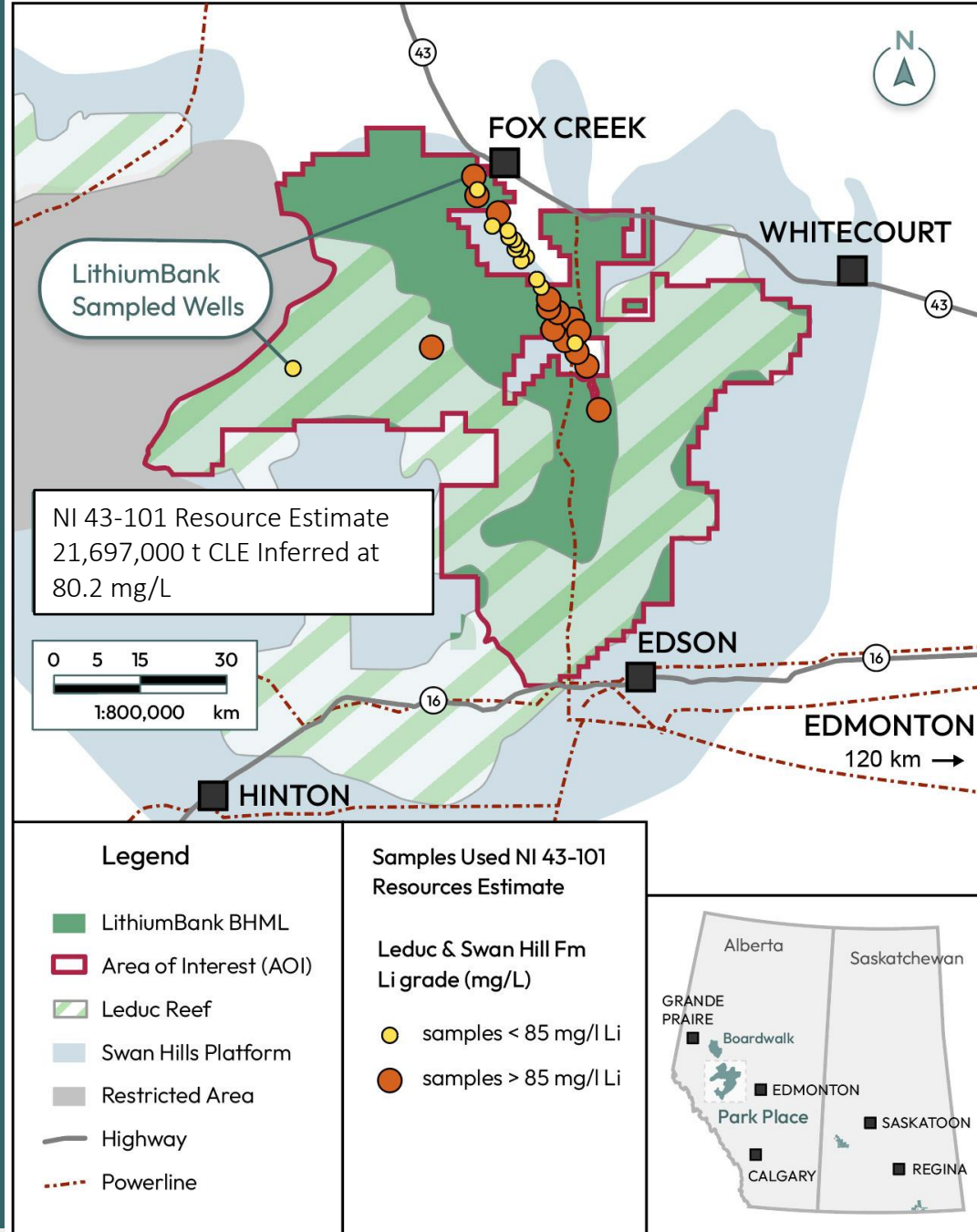
- Highest grade lithium resource estimates in Alberta at 80.9 mg/L in the Leduc Fm and 79.4 mg/L in the Swan Hills Fm
- SLB conducted subsurface reservoir modelling aided by 3D & 2D seismic over 450 wells with 40 Li brine samples
- Multiple areas of >350m in combined reservoir thickness to be considered for PEA

Recent Highlights:

- 148 cubic meter bulk brine sample collection completed and in Calgary for upcoming DLE Pilot testing

Large Land Package & Simple Tenure:

- 538,359 contiguous acres BHML's
- 100% owned crown/no freehold royalties
- Minimal CCUS overlap and O&G production within the AOI



SASKATCHEWAN ASSETS

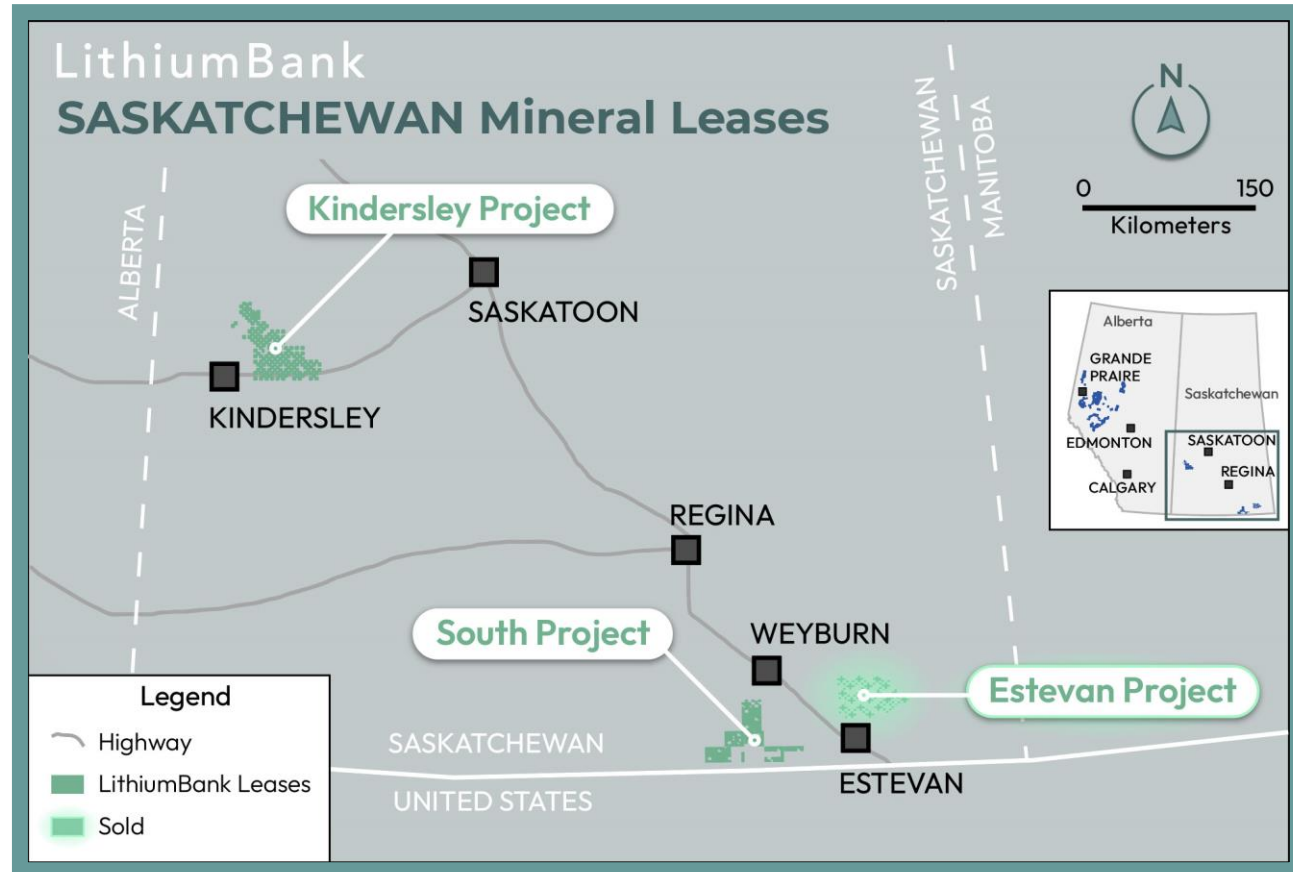
>15x Return on the Sale of Estevan Property
A Repeatable Model

Strategic Purchase and Sale

- In 2021 LithiumBank purchased a portfolio of 3 distinct projects totaling 338,753 acres
- On March 27, 2024, LithiumBank completed the sale of its Estevan project for **\$15 million** to an energy company valuing the project at **\$165/acre** for 90,883 acres

Kindersley & South

- Kindersley represents 116,845 acres of crown land adjacent to Grounded Lithium/Denison Mines' freehold asset that posted a positive PEA with Pre-Tax NPV of \$1B and a 48% IRR
- South represents 133,858 acres of crown land adjacent to Arizona Lithium (ASX:AZL) who purchase Prairie Lithium's Williston Basin project for \$70M (~\$200/acre) in cash and shares in early 2023



GLOBALLY SIGNIFICANT LITHIUM RESOURCES

LithiumBank is among the global leaders in corporate holdings of lithium (LCE) resources

Boardwalk

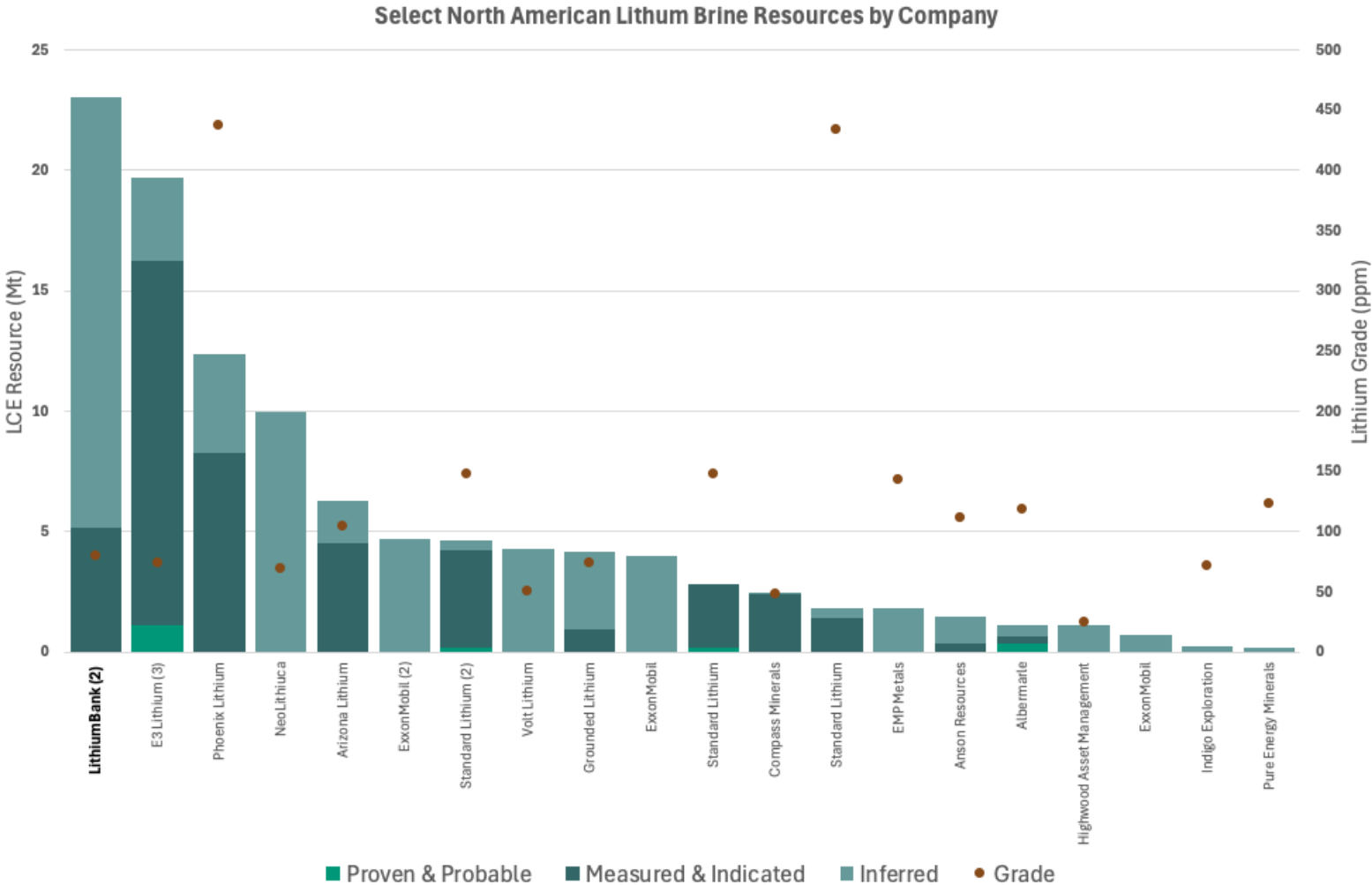
- 5.2 Mt LCE Measured & Indicated @ 81.6 mg/L Li
- 2.8 Mt LCE Inferred @ 79.0 mg/L Li

Park Place

- 15.2 Mt LCE Inferred
- At 80.0 mg/l Li

Total

- 5.2 Mt LCE M&I
- 18.0 Mt LCE Inferred



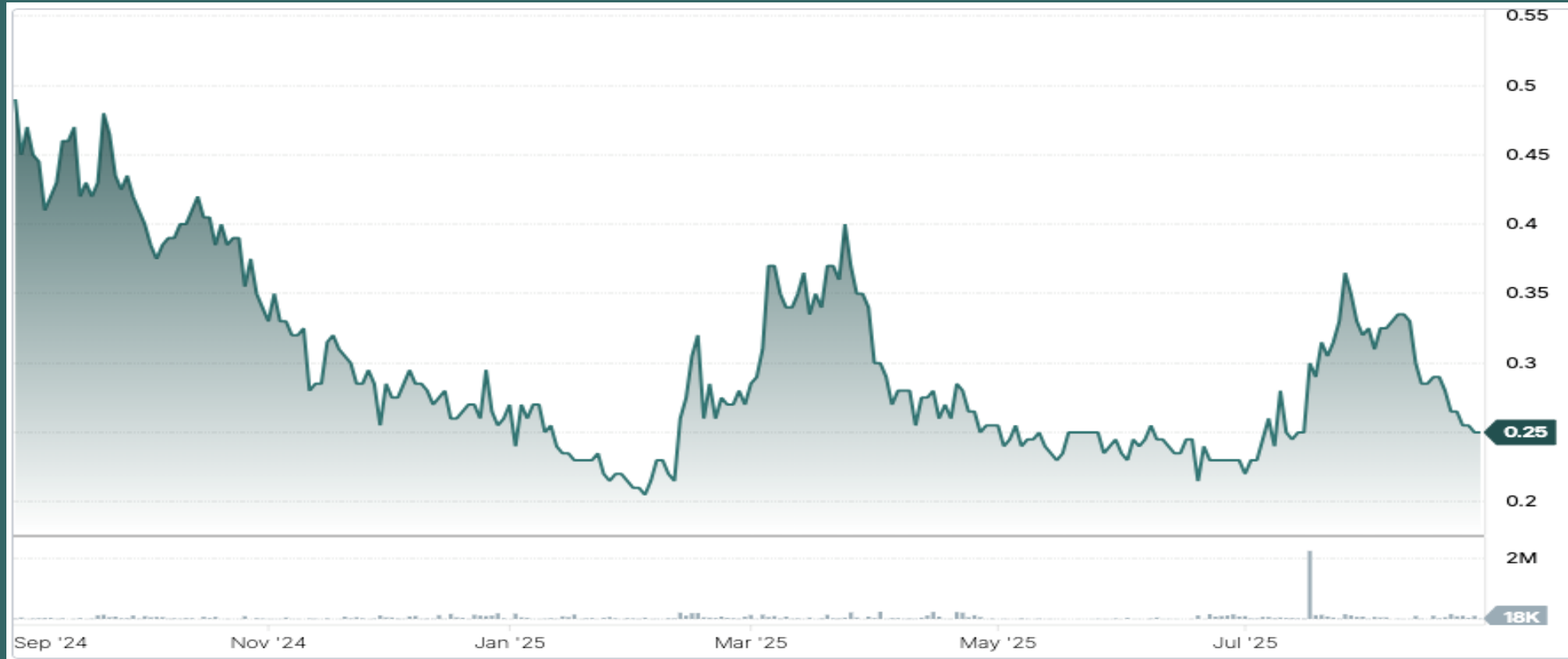
INVESTMENT CONCLUSIONS

- 1 Potential for Cyclical Bottom investment timing in a predictable commodity cycle
- Compelling value creation strategy – **Acquire/Develop/Sell** 2
- 3 Clear and timely value creation objectives
- Rapidly advancing **2** District scale assets 4
- 5 The largest scale globally significant resources
- Compelling Preliminary Economic Assessment Results with Significant Upside 6
- 7 Industry leading DLE large scale pilot plant testing completed
- Derisking flagship assets with premier industry engagements and partnerships SLB and Hatch 8
- 9 Estevan purchased for \$1M and sold within 24 months for \$15M with no material expenditures
- Management Team have created over **\$2B for investors** to date in over 8 transactions executing this model 10

SHARE STRUCTURE

*Insiders ~35% S/O

Including Insiders, Friends, Family as of May 2025



63,133,138

Shares
Outstanding

7,059,625

Options

11,684,787

Warrants

81,877,550

Fully Diluted

ENGAGEMENTS



[View Press Release](#)

LithiumBank engaged SLB to complete a NI 43-101 Resource Estimate which includes detailed subsurface reservoir modeling, 3D seismic interpretation and, DLE test work.



[View Press Release](#)

LithiumBank signed a nonbinding MOU with Invest Alberta to support the development of commercial lithium production.



[View Press Release](#)

Hatch was engaged by LithiumBank to assess DLE processes available globally to form the basis of Boardwalk's updated PEA published in January 2024



[View Press Release](#)

Signed a Memorandum of Understanding (MOU) – nonbinding, with ZS2 to combine technologies to capture CO2 from LBNK, extract Mg from brine and sequester CO2 in Mg cement

LITHIUMBANK TEAM



Paul Matysek, M.Sc. (Geochem)

Executive Chairman

Mr. Matysek is a geoscientist by training, a successful alpha entrepreneur and consistent creator of shareholder value with over 40 years of experience in the mining industry.

Since 2007, as either CEO or Executive Chairman, Mr. Matysek has sold six publicly listed mineral exploration and development companies, in aggregate worth over \$2.5 billion.



Rob Shewchuk

Co-Founder, CEO & Director

Mr. Shewchuk began his career as a licensed Equities Trader and Stock Broker with Yorkton Securities in Calgary, Alberta in 1996. He joined Standard Securities Capital Corporation in 2004 and became Chairman in 2007. He merged Standard with Wolverton Securities Ltd. in 2009 where he was a Managing Director until it was sold to PI Financial Corp with \$6 Billion in AUM in 2016.

Rob is currently CEO & Director of LithiumBank Resources Corp (LBNK-TSXv), Chief Architect and Director of Caerus Capital Partners Inc, and a licensed Dealer Representative at EMD TriView Capital Ltd.



Kevin Piepgrass, P.Geo

COO

University of Alberta Graduate and Professional Geologist, registered at APEGBC. Over 20 years of experience managing the exploration and development of commodities including gold, silver, copper, lithium and rare earth elements. Mr. Piepgrass is a Qualified Person pursuant to National Instrument 43-101 standards for disclosure for mineral projects.

LITHIUMBANK TEAM



Christopher Murray
Director



Steven Piepgrass, P.Eng, MBA
Director



Katya Zotova
Director



Ann Fehr
CFO & Corporate Secretary



Jon LaMothe, M.Sc
VP Exploration



Leo Karabelas,
Investor Relations



Nikolas Matysek
Director of Communications

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